

## Leidy, Robert

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**From:** Leidy, Robert  
**Sent:** Thursday, December 03, 2015 12:54 PM  
**To:** Julia Fonseca  
**Subject:** RE: Watershed area calculations--high priority

Thank you Julia and Erik. This is exactly what I wanted.

Best,

Rob

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**Robert A. Leidy, Ph.D.**  
**Ecologist/Enforcement Officer**  
**U.S. Environmental Protection Agency**  
**Wetlands Office (WTR-2-4)**  
**75 Hawthorne Street**  
**San Francisco, CA 94105**  
**(415) 972-3463**

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**From:** Julia Fonseca [mailto:Julia.Fonseca@pima.gov]  
**Sent:** Thursday, December 03, 2015 12:45 PM  
**To:** Leidy, Robert <Leidy.Robert@epa.gov>  
**Subject:** FW: Watershed area calculations--high priority

Robert, here is the watershed area information that I think you requested.

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**From:** Erik Glenn  
**Sent:** Thursday, December 03, 2015 8:57 AM  
**To:** Julia Fonseca  
**Subject:** RE: Watershed area calculations--high priority

Julia,

Here are the revised acreage calculations:

- The watershed area of Davidson Canyon that is upstream of the Barrel Canyon Wash confluence (not including Barrel Canyon) is unchanged from my previous email: **~5,020 acres**
- The revised watershed area of Davidson Canyon that is upstream of the start (upstream end) of the Outstanding Waters designation, including the small area we discussed: **~28,920 acres**

Let me know if you have additional questions.

Cheers,

Erik

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**Erik Glenn**

GIS Analyst – Senior  
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**From:** Julia Fonseca  
**Sent:** Monday, November 30, 2015 8:28 AM  
**To:** Erik Glenn <[Erik.Glenn@pima.gov](mailto:Erik.Glenn@pima.gov)>  
**Subject:** RE: Watershed area calculations--high priority

Yes, I would like to see the different watersheds.

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**From:** Erik Glenn  
**Sent:** Monday, November 23, 2015 5:02 PM  
**To:** Julia Fonseca  
**Cc:** Clark Phillips  
**Subject:** RE: Watershed area calculations--high priority

Julia,

Here's my best set of area calculations as of COB today:

- Watershed area of Davidson Canyon that is upstream of the start of the Outstanding Waters designation: ~28,800 acres
- Watershed area of Davidson Canyon that is upstream of the Barrel Canyon Wash confluence (i.e. not including Barrel Canyon): ~5,020 acres

The watershed I came up with didn't perfectly align with either the existing Cienega watershed boundary we had been using for you in previous projects or the Cienega watershed boundary as defined by RFCD. I can try some different pit(sink) removal algorithms and/or different DEMs tomorrow morning if you'd like to improve the watershed delineations. Let me know tomorrow if you'd like me to give that a shot. I'd be happy to show you what I did this afternoon, as well, if you'd like to come up to my office in the morning.

--Erik

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**Erik Glenn**

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**From:** Clark Phillips  
**Sent:** Friday, November 20, 2015 10:09 AM  
**To:** Julia Fonseca <[Julia.Fonseca@pima.gov](mailto:Julia.Fonseca@pima.gov)>  
**Cc:** Erik Glenn <[Erik.Glenn@pima.gov](mailto:Erik.Glenn@pima.gov)>  
**Subject:** RE: Watershed area calculations--high priority

Good morning,

Just want to let you know I have received this request and it's in the queue. Hope to get to it soon. Should be completed by deadline.

Clark

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**From:** Julia Fonseca  
**Sent:** Friday, November 20, 2015 9:45 AM  
**To:** Clark Phillips <[Clark.Phillips@pima.gov](mailto:Clark.Phillips@pima.gov)>  
**Subject:** Watershed area calculations--high priority  
**Importance:** High

Hi, I would like two watershed calculations for Davidson Canyon:

The watershed area of Davidson that is upstream of the beginning of the Outstanding Waters designation and  
The watershed area of Davidson that is upstream (and excluding) the Barrel Canyon confluence

I am happy to discuss this more. No map is needed as an end product, but may be helpful for discussion purposes to ensure we are on the same page.

Need this by Monday COB if possible.

## **Julia Fonseca**

Environmental Planning Manager

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[Multi-species Conservation Plan](#)

[Sonoran Desert Conservation Plan](#)

[Lower Santa Cruz Living River Project](#)